

1/10

pAS2 Insert	Colony Color		
	pGAD GH Insert		
	PIN1	PIN2	PIN3
NIMA	Blue	Blue	Blue
K40M NIMA	Blue	Blue	Blue
NIMA280-699	Blue	Blue	White
NLK1	White	White	Blue
NIMA280-699FS	White	White	White

FIG. 1A

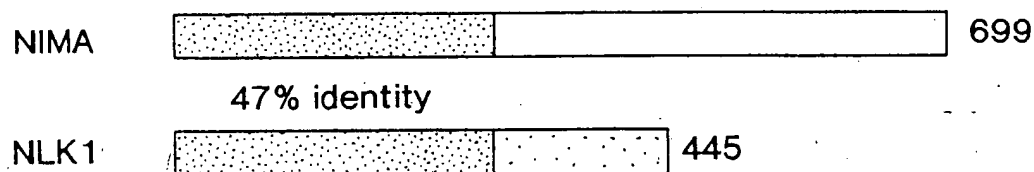


FIG. 1B

2/10

TGCTGGCCAGCACCTCGAGGGAAG

1 ATGGCGGACGAGGAGAAGCTGCCGCCCCGGCTGGGAGAAGCGCATGAGCCGCAGCTCAGGC 20
M A D E E K L P P G W E K R M S R S S G
61 CGAGTGTA TACTTCAACCACATCACTAACGCCAGCCAGTGGGAGCGGCCCAGCGGCAAC 40
R V Y Y F N H I T N A S Q W E R P S G N
121 AGCAGCAGTGGTGGCAAAAACGGGCAGGGGGAGCCTGCCAGGGTCCGCTGCTCCACCTG 60
S S S G G K N G Q G E P A R V R C S H L
181 CTGGTGAAGCACAGCCAGTCACGGCGGCCCTCGTCCTGGCGGCAGGAGAAGATCACCCGG 80
L V K H S Q S R R P S S W R Q E K I T R
241 ACCAAGGAGGAGGCCCTGGAGCTGATCAACGGCTACATCCAGAAGATCAAGTCGGGAGAG 100
T K E E A L E L I N G Y I Q K I K S G E
301 GAGGACTTTGAGTCTCTGGCCTCACAGTTCAGCGACTGCAGCTCAGCCAAGGCCAGGGGA 120
E D F E S L A S Q F S D C S S A K A R G
361 GACCTGGGTGCCTTCAGCAGAGGTCAGATGCAGAAGCCATTTGAAGACGCCTCGTTTGCG 140
D L G A F S R G Q M Q K P F E D A S F A
421 CTGCGGACGGGGGAGATGAGCGGGCCCGTGTTACGGATTCCGGCATCCACATCATCCTC 160
L R T G E M S G P V F T D S G I H I I L
481 CGCACTGAGTGAGGGTGGGGAGCCCAGGCCTGGCCTCGGGGCAGGGCAGGGCGGCTAGGC
R T E *
541 CGGCCAGCTCCCCCTTGCCCCGACCCAGTGGCCGAACCCCCCACTCCCTGCCACCGTCA
601 CACAGTATTTATTGTTCACCAATGGCTGGGAGGGGGCCCTTCCAGATTGGGGGCCCTGG
661 GGTCCCCACTCCCTGTCCATCCCCAGTTGGGGCTGCGACCGCCAGATTCTCCCTTAAGGA
721 ATTGACTTCAGCAGGGGTGGGAGGCTCCAGACCCAGGGCAGTGTGGTGGGAGGGGTGTT
781 CCAAAGAGAAGGCCTGGTCAGCAGAGCCGCCCGTGTCCCCCAGGTGCTGGAGGCAGAC
841 TCGAGGGCCGAATTGTTTCTAGTTAGGCCACGCTCCTCTGTTCAGTCGAAAGGTGAACA
901 CTCATGCGGCAGCCATGGGCCCTCTGAGCAACTGTGCAGACCCTTTCACCCCCAATTAAA
961 CCCAGAACCCTAAAAA

FIG. 2A

3/10

Pin1/Human	5	E	K	L	P	P	G	W	E	K	R	M	S	R	S	S	G	R	V	Y	Y	F	N	H	I	T	N	A	S	Q	W	E	R	P	S	G	N	S	S	S
ESS1/SC	9	T	G	L	P	T	P	W	T	V	R	Y	S	K	S	K	K	R	E	Y	F	F	N	P	E	T	K	H	S	Q	W	E	E	P	E	G	T	N	K	D
Yap/Human	171	V	P	L	P	A	G	W	E	M	A	K	T	S	S	-	G	Q	R	Y	F	L	N	H	I	D	Q	T	T	W	Q	D	P	P	R	K	A	M	L	S
Nect4/Mouse	?	S	P	L	P	P	G	W	E	E	R	Q	D	V	L	-	G	R	T	Y	Y	V	N	H	E	S	R	R	T	Q	W	K	R	P	S	P	D	D	D	
RGP5/SC	228	G	R	L	P	P	G	W	E	R	R	T	D	N	F	-	G	R	T	Y	Y	V	D	H	N	T	R	T	T	W	K	R	P	T	L	D	Q	T	E	
Dmd/Human	3052	T	S	V	Q	G	P	W	E	R	A	I	S	P	N	K	V	P	-	Y	Y	I	N	H	E	T	Q	T	T	C	W	D	H	P	K	M	T	E	L	Y
FE65/Rat	12	S	D	L	P	A	G	W	M	R	V	Q	D	T	S	-	G	-	T	Y	Y	W	H	I	P	T	G	T	T	Q	W	E	P	P	G	R	A	S	P	
Consensus		..	L	P	.	G	W	E	.	.	.	.	.	.	.	.	G	.	Y	Y	.	N	H	.	T	.	.	T	.	W	.	.	.	.	.	.	.	.	.

FIG. 2B

Pin1/Human	59	H	L	L	V	K	H	S	Q	S	R	R	P	S	S	W	R	Q	E	K	I	T	R	T	K	E	E	A	L	E	L	I	N	G	Y	I	Q	K	I	K
ESS1/SC	63	H	I	L	I	K	K	D	S	R	R	P	A	S	H	R	S	E	N	I	T	I	S	K	Q	D	A	T	D	E	L	K	T	L	I	T	R	L	D	
Parvulin/EC	8	H	I	L	V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PrsA/BS	140	H	I	L	V	A	D	K	K	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cbf2/CJ	137	H	I	L	V	A	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EST/AT	?	H	I	L	V	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Consensus		H	I	L	V	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

SGE	-	-	E	D	F	E	S	L	A	S	Q	F	S	D	C	S	S	A	K	A	-	R	G	D	L	G	A	F	S	R	-	G	Q	M	Q	K	
DDSK	-	-	A	D	F	G	K	L	A	K	K	H	S	I	C	P	S	S	G	K	R	-	G	G	D	L	G	W	F	F	G	R	-	G	E	M	Q
NGE	-	-	A	D	F	G	K	L	A	K	K	H	S	I	C	P	S	S	G	K	R	-	G	G	D	L	G	E	F	-	R	Q	G	M	V	P	
KGEK	-	-	A	D	F	G	K	L	A	K	K	H	S	I	C	P	S	S	G	K	R	-	G	G	D	L	G	W	F	F	A	K	E	G	M	D	
GKEL	D	A	K	F	S	E	L	A	K	E	K	S	I	D	P	G	S	K	N	Q	G	G	E	L	G	W	F	-	D	Q	S	T	M	V	K		
VSK	-	-	A	N	F	E	E	V	A	T	R	V	S	D	C	S	S	A	K	R	-	G	G	D	L	G	S	F	G	R	-	G	Q	M	Q		
Consensus		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

PFEDA	S	F	A	L	R	T	G	E	M	S	G	-	P	V	F	T	D	S	G	I	H	I	I	L	R	T	E	164	Pin1/Human			
SFEDA	A	F	Q	L	K	V	G	E	V	S	D	-	I	V	E	S	G	S	G	V	H	V	I	K	R	V	G	170	ESS1/SC			
AFD	K	V	V	F	S	C	P	V	L	E	P	T	G	-	P	L	H	T	Q	F	G	Y	H	I	I	K	V	L	Y	93	Parvulin/EC	
TF	S	K	A	A	F	K	L	K	T	G	E	V	S	D	-	P	V	K	T	Q	Y	G	H	I	I	K	T	E	215	PrsA/BS		
PF	T	D	A	A	F	A	L	K	N	G	T	I	T	T	-	P	V	K	T	N	F	G	Y	H	I	I	L	K	E	N	219	Cbf2/CJ
PF	E	E	A	T	Y	A	L	K	V	G	D	I	S	D	-	I	V	D	T	D	S	G	V	H	I	I	K	R	T	E	69	EST/AT
Consensus		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

FIG. 2C

4/10

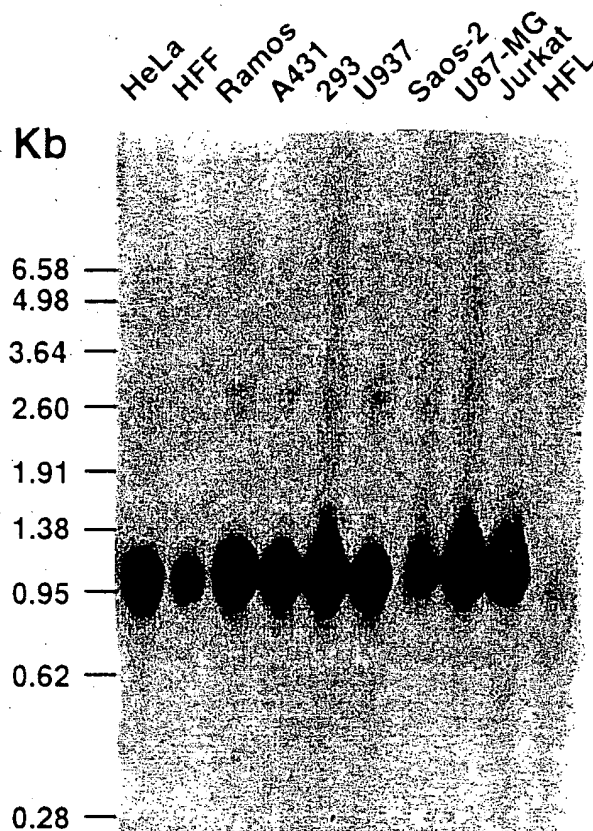
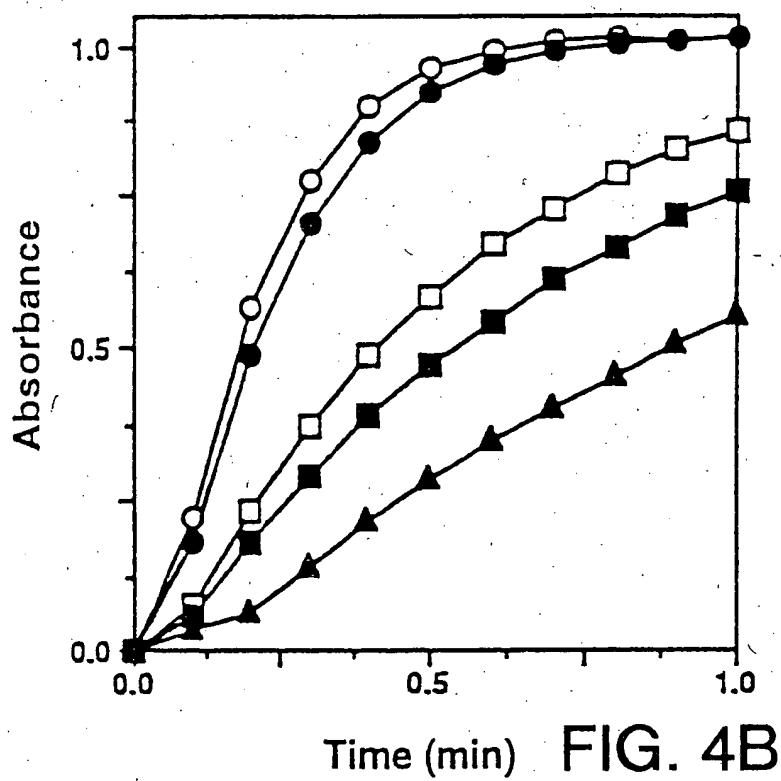
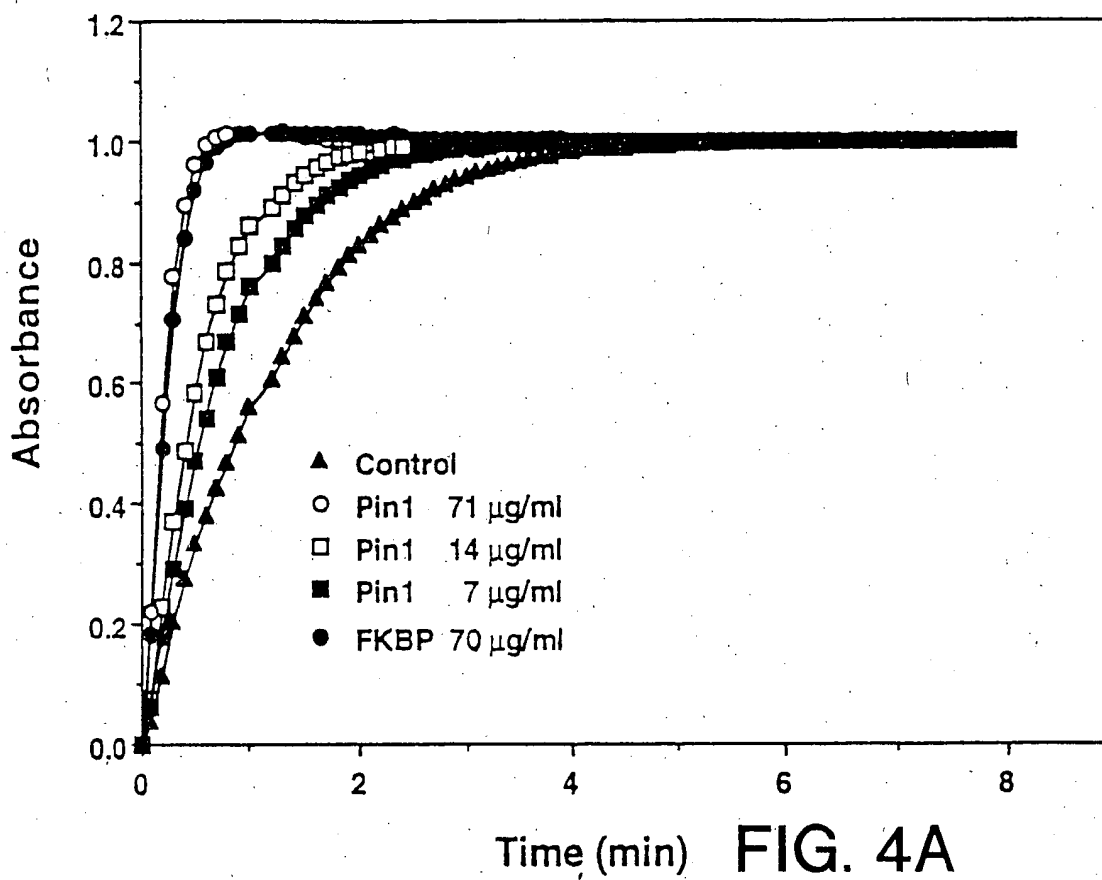
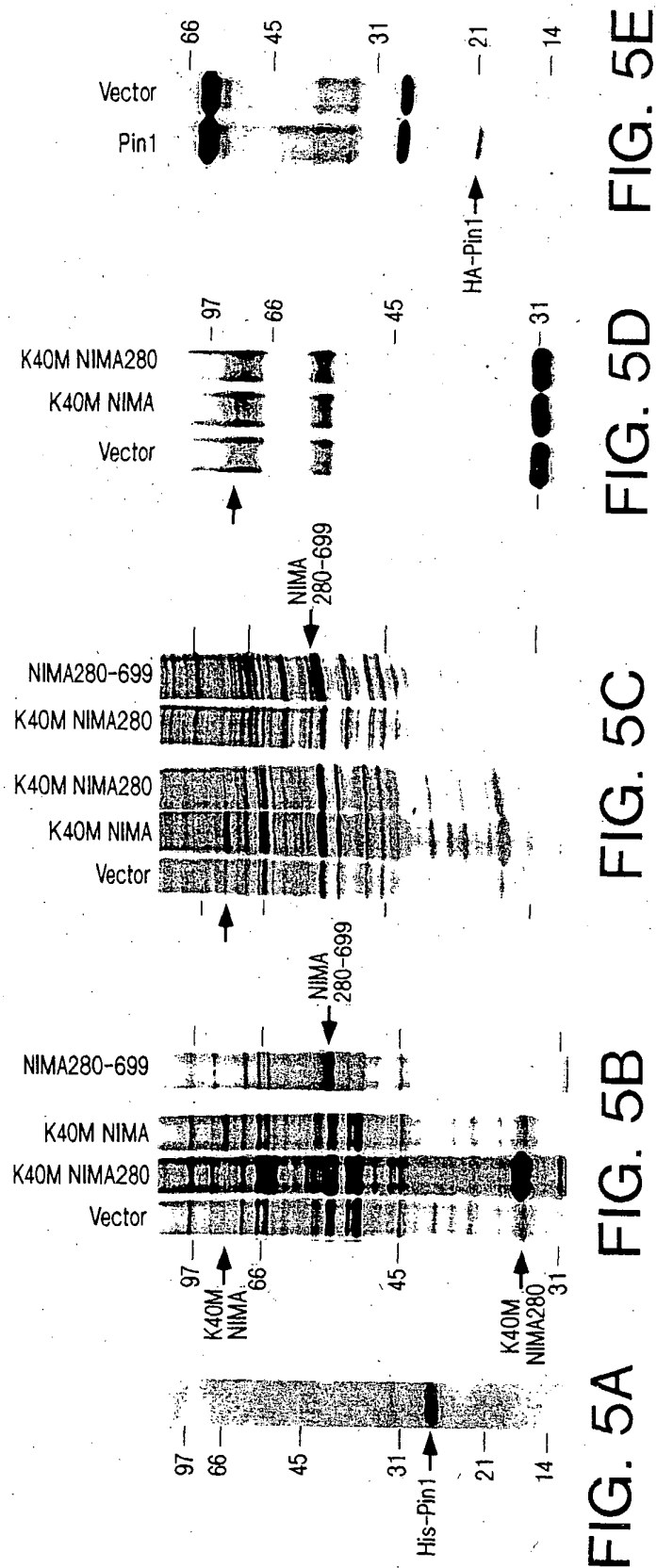


FIG. 3

5/10



6/10



7/10

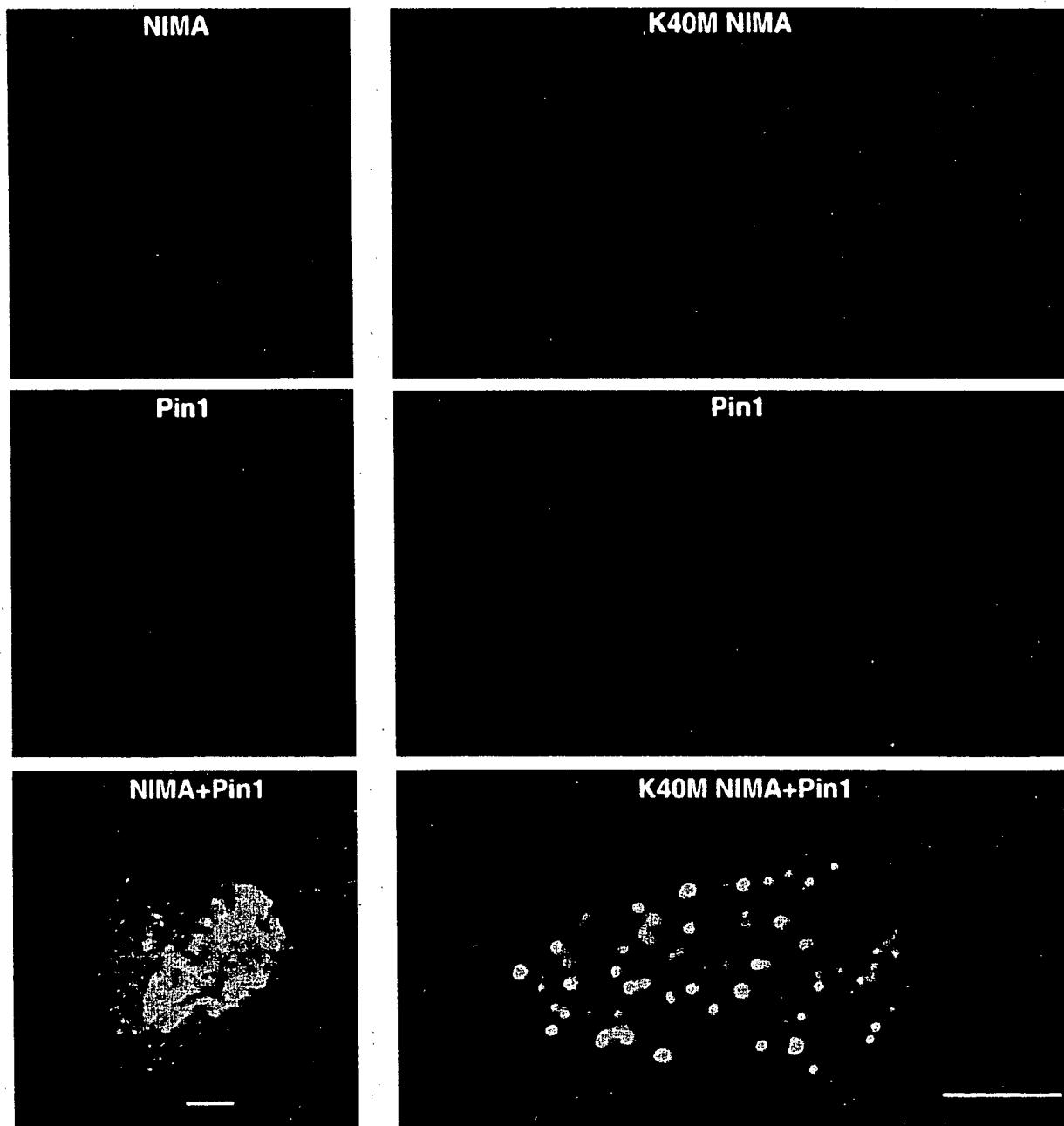


FIG. 6

8/10

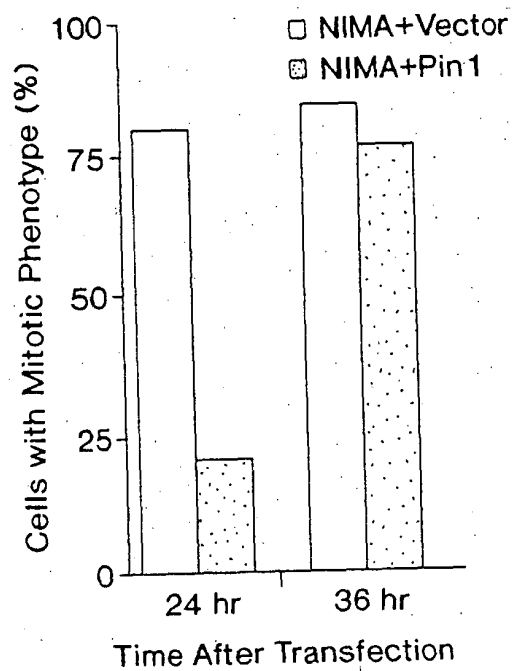


FIG. 7A

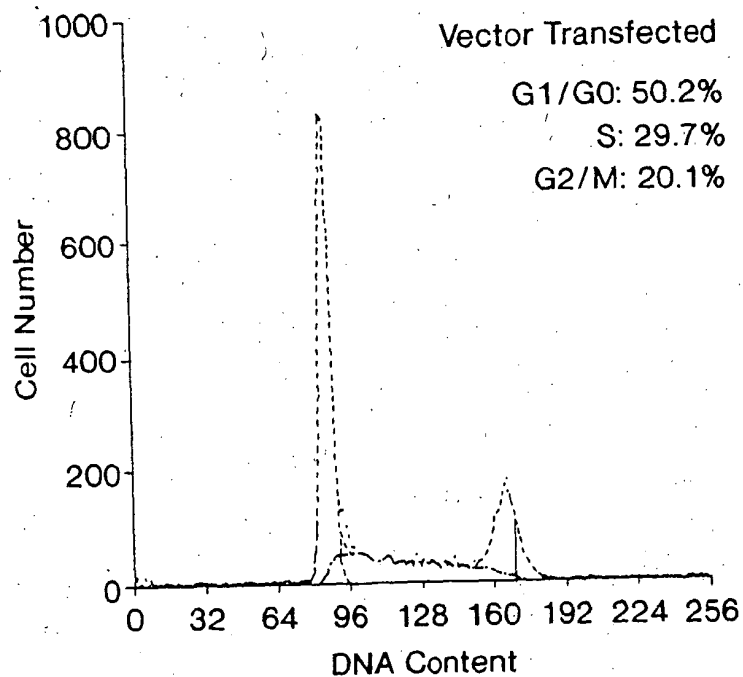


FIG. 7B

9/10

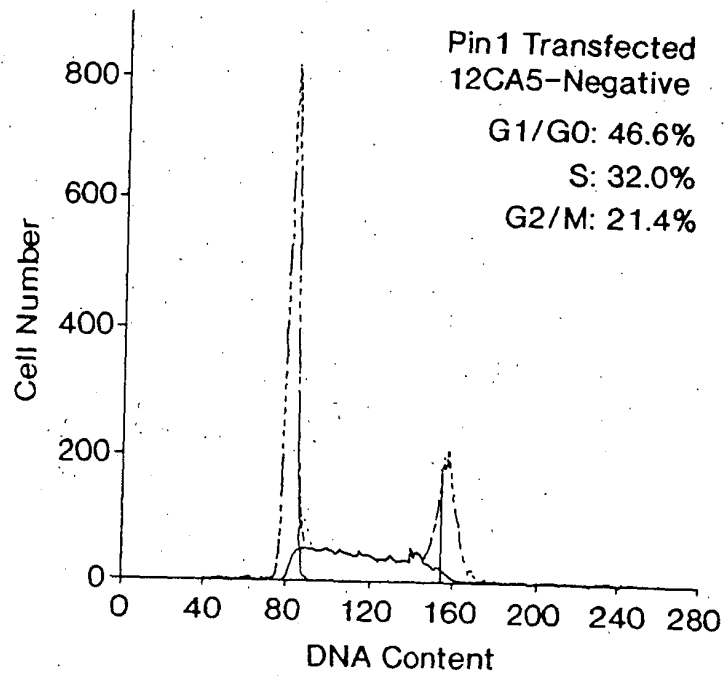


FIG. 7C

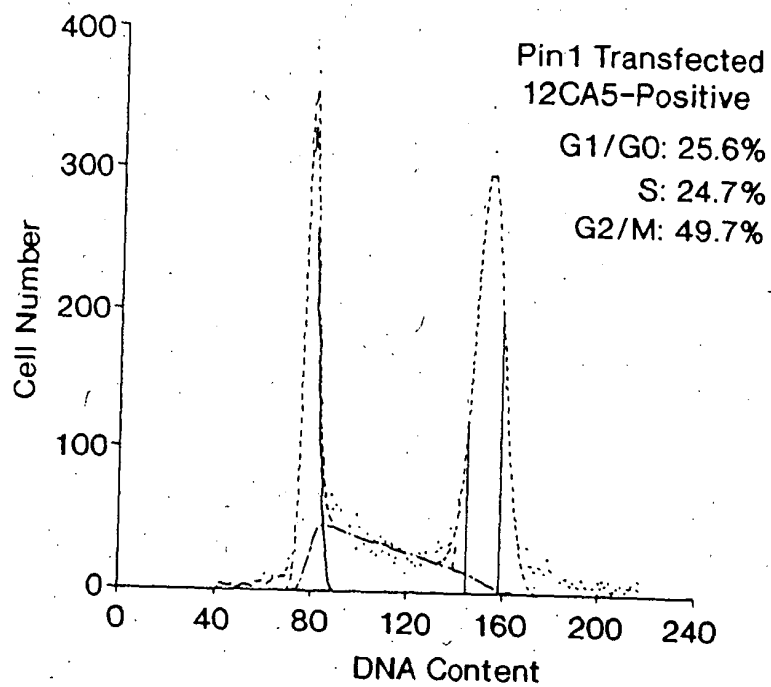


FIG. 7D

10/10

